

203139 0063/001

Figure 1:

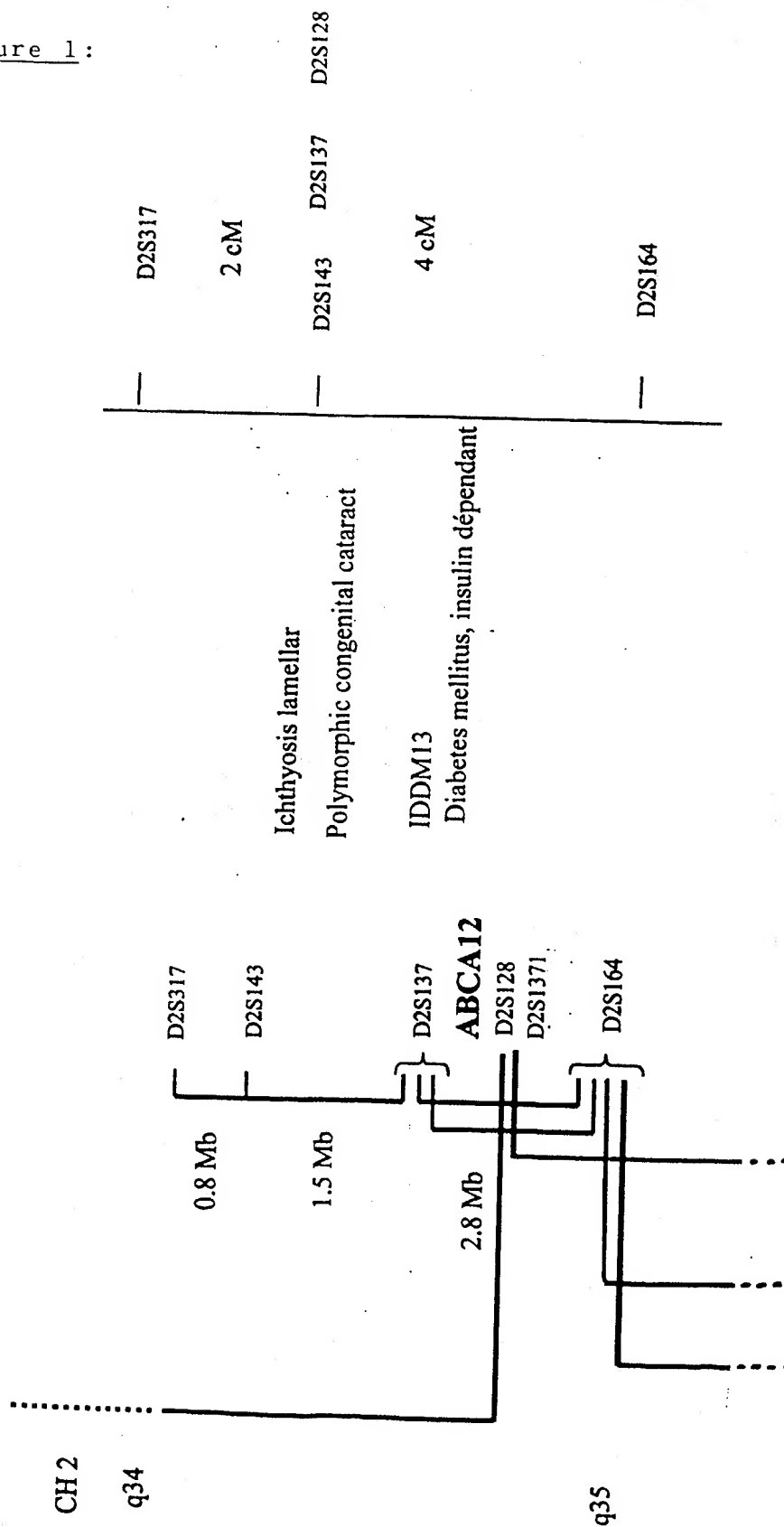


Figure 2:

SEQ ID NO: 1

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Figure 3

SEQ ID NO: 2

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5 GCTTCATTTTGAAGAAAAGCCACAGAAGATACACTTCCGCAAGATATCTTCATTTTAAAGTAAA
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10 TCCAGAAAACAACAGAAATGAACATCATCATGAATACATGAATCGGCTGTGATGTGTGAACTGCT
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GAAAACGAATATGAAGATAATTTTCAGCTAATTATCTGGGTGACCCAGAATCGTGTATATGGCT
ATAGGATAGACTTCTTAATAATGGCAAGTGACGTGGCCCTGGGGAAAGGTGCTTTATGTACCGT
GTGTGCGTGTATGTGTGTATCTATACAAGTTTGTGAGCTTTGGCATGACTGTTTGTCTCGAA
20 AACC**AATAAA**CTCAAAGTTTAGAAAACTCAAAAAAAAAAAAA

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Figure 4

SEQ ID NO: 3

5 GAAGAGTTGATTGAGAAGTGCCTCTTGGTTAAGGATTAACCACAGGGAAAAATCCAGCAGAAAC
AGAAGAACTGTGGGTTTCTTACCCAGCCCTCAAGGAAGCTATGCCGTGAAAGGGGTACTGATA
CACTGACATACAGCAAGTTGGACGGGGCATCAGTTCTTCATTTGTGGAGTGGAGAAAAAGAGAG
10 GAAATCTCTCATTGGGGCATTTGAAGGATGGCTTCCCTGTTTCATCAGCTTCAGATCCTGGTC
TGGAAAAATTTGGCTAGGTGTAAAAAGGCAGCCGCTTTGGACACTTGTCTTGATCTTATGGCCAG
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GACACAGACTCTAAATGCAAAGACACACCCCTATGGCCCACAAGATCTGCTTCGTAGGAAAGGAA
15 TTGATGATGCACTATTTAAAGACAGTGAGATTCTGAGAAAGTCATCCAACCTGGATAAGGACAG
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20 AATGTTTTTAACAAATTTTGCCTTTTCTAACATGACCCCTTTAGAGTCTTCTCTCCAAGAACTAA
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25 CCTCCAGAAGTCTGTTAAACATCTGCTGTACACTCTGGACTCCCCAGCTCAAGGTGACTCCGAT
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60 ATTTATAGCTGCCTTTGTAAAAAGCTTGTCTATGAGAAAGACCTCCGGCTTCATGATACATG
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5 CATGAGCCTGTGTCCCCAACAGCATTACAGCTATGCAAGCCAATACATTGCACGATACGAAGAA
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15 GGAGTCTGTATGCAGCACGACGCTCTTGTTCAGTTACCTCACTACTAAGGAGCACCTTCTCTAT
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20 CAGAACAATCATTTCTGTCAACGACCACTTGGACGAGGCTGAAGTGCTGAGTGACCGCATCGCC
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55 ACAACATCAGCATCGGGATACCTGCTGGAGAGTGTGTTTGGGCTTCTTGGAGTGAATGGAGCAGG
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 10 CCACAGAAGATACACTTCCGCAAGATATCTTCATTTTAAAGTAAAGTAATATACTGTATGGAAA
 GTTACAACCTGTGTTAGACTAACAAGTAATTATAAAAGGAAATTTTTCCTTCTAAGGTCAGTGAG
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 AAGACAGTTTAAAAGGCCAAAAAAAAAAAAA

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Figure 5:

SEQ ID NO: 4

5 GAAGAGTTGATTGAGAAGTGCCTCTTGGTTAAGGATTAACCACAGGGAAAAATCCAGCAGAAAC
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 45 AACACAGTCGGTCCCTAGACTTCTTAAAGCATATGGAGTGAATACCCAAATGAAACCTTTGA
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 CGACTCTTAATCAACGAATCCCTGATAAAGAACTCAGGCTTTTCTTCAAAAATTTAATTTCTT
 CACATGTAAGGGAGACAATAGATGAGGATGAAGATGTGCGGGCTGAGAGATTAAGAGTTGAGAG
 TGGTGCAGCTGAATTTGACTTGGTCCAATTTATTGTCTCACAAAGACCTACCACTTATCCAC
 50 AAAAGATTATAGCTGTAAACAACATCAGCATCGGGATACCTGCTGGAGAGTGTTTTGGGCTTC
 TTGGAGTGAATGGAGCAGGAAAGACCACTATATTCAAGATGCTGACAGGAGACATCATTTCTTC
 AAGTGGAAACATTTCTGATCAGAAATAAGACCGGATCTCTGGGTACGTTGATTCTCACAGCTCA
 TTAGTTGGCTACTGTCTCAGGAAGATGCCTTAGATGACCTGGTAACTGTGGAAGAATTTGT
 ATTTCTATGCCAGGGTACATGGAATTCAGAAAAGGATATTAAAGAACTGTTTCAATAAATCCTT
 55 TAGGAGACTTCACCTGATGCCCTTCAAGGACAGAGCTACCTCTATGTGCAATTTATGGCACAAA
 AGAAAATTTATCCACTGCACTGGCCTTGATAGGGAAACCTTCCATTCTACTGCTGGATGAGCCGA
 GCTCTGGCATGGATCCGAAGTCGAAACGGCACCTCTGGAAGATCATTTTCAAGAAGTACAGAA
 CAAATGTTCCGTCATCCTCATCTCACAGCATGGAAGAATGTGAAGCTCTCTGTACCAGGTTG
 GCCATTATGGTGAATGGAAAGTTTCAATGATTGGATCTTTGCAGCACATAAAGAGCAGGTTTG
 60 GACGAGGATTTACTGTCAAAGTTTCACTTGAAGAATAAACAAGTGACCATGGAGACCTTCAAAA
 GTTCATGCAGCTGCACTTTCCAAAAACATACTTAAAGATCAGCACCTCAGCATGCTAGAGTAT
 CATGTACCAGTCACAGCAGGAGGAGTCGCAACATTTTTGATCTGCTGGAAACCAACAAGACTG

CTTTAAATATTACAAATTTCTTAGTGAGTCAGACCACTCTGGAAGAGGTTTTTCATCAACTTTGC
CAAAGACCAGAAGTCCTATGAAACTGCTGATACCAGCAGCCAAGGTTCCACTATAAGTGTGAC
TCACAAGATGACCAGATGGAGTCTTAAACACTTCCAGCAAACCTCAATCTCAGCGTGTGACCAATG
5 GCTTCATTTTGAAGAAAAGCCACAGAAGATACACTTCCGCAAGATATCTTCATTTTAAAGTAAA
GTAATATACTGTATGGAAAGTTACAACCTGTGTTAGACTAACAAGTAATTATAAAAGGAAATTTT
TCCTTCTAAGGTCAGTGAGTGTGTTGCTACTGAAATGAATTCCTGTATACTCAACACTGTGAG
CATGCTAATGTATATGCTGGTGATTCTTATGCAAAGGTGAAGCCACCTCAAGATGAATATCTTA
ATTTATTACTTTCAATAAAAAGACAGTTTAAAAGGCAAAAAAAAAAAAAA

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Figure 6:

5 SEQ ID NO: 5

MASLFHQQLVWKNWLGVRQPLWTLVLILWPVIFIILAITRTKFPPTAKPTCYLAPRNL PSTG
 FFPFLQTLLCDTDSKCKDTPYGPQDLLRRKGIDDALFKDSEILRKSSNLDKDDSSLSFQSTQVPERR
 10 HASLATVFPSPSSDLEIPGTYTFNGSQVLARILGLEKLLKQNSTSEDIRRELCDYSGYIVDDAFS
 WTLFLGRNVFNKFLSNMTLLESSLQELNKQFSQSSDPNNQKIVFQEIVRMLSFSSQVQEQKAVWQ
 LLSSFPNVFQNDTSLSNLFDVLRKANSVLLVVQKVYPRFATNEGFRTLQKSVKHLTYLTDSPAQGD
 SDNITHVWNEDDGQTLSPSSLAQQLILENFEDALLNISANSPIPYLACVRNVTDSLARGSPENL
 RLLQSTIRFKKSLRNGSYEDYFPVPEVLKSKLSQLRNLTELLCESETFSLIEKSCQLSDMSFGS
 15 LCEESEFDLQLEAAELGTEIAASLLYHDNVI SKKVRDLLTGDP SKINLNM DQFLEQALQMNYLEN
 ITQLIPIIEAMLHVNNASADASEKPGQLLEMFKNVEELKEDLRRTTGMSNRTIDKLLAIPIDNRAE
 IISQVFWLHSCDTNITPKLEDAMKEFCNLSLSESRQSYLIGLTLHLNINFTDKVFFPRKDQ
 KPVEKMMELFIRLKEILNQMASGTHPLLDKMRSLKQMHLP RSVP L TQAMYRSNRMNT PQGSFSTIS
 QALCSQGITT EYLTAMLPSSQRPKGNHTKDFLT YKLTKEQIASKYGIPI NTTPFCFSLYKDI INMP
 20 AGPVIWAF LKPM L LGRILHAPYNPVTKAIMEKSNVTLRQLAELREKSQEWMDKSP LFMNSFHLLNQ
 AIPMLQNTLRNPFVQVFKFSVGLDAVELLKQIDELDILRLKLENNIDI DQNLTLSSLTVNISSC
 VLYDRIQAAKTIDEMEREAKRLYKSNELFGSVIFKLPSNRSWHRGYDSGNVFLPPVIKYTIRMSLK
 TAQTTRSLR TKI WAPGPHNSPSHNQIYGRAFIYLQDSIERAIIELQTGRNSQEI AVQVQAI PYP CF
 MKDNFLT SVSYSLPIVLMVAWVVFIAAFVKLVYEKDLRLHEYM KMMGVNSC SHFFAWLIESVGFL
 25 LVTIVILIIILKFGNILPKTNGFILFLYFSDFSVIAMSYLISVFFNNTNIAALIGSLIYIIA FF
 PFIVLVTVENELSYVLKVFMSLLSPTAFSYASQYIARYEEQGIGLQWENMYTSPVQDDTTSFGWLC
 CLILADSFYIYFLIAWYVRNVFPGTYGMAAPWYFPILPSYWKERFGCAEVKPEKSNGLMFTNIMMQN
 TNPSASPEYMFSSNIEPEPKDLTVGVALHGVTKIYGSKVAVDNLNLNFYEGHITSLGPNAGAKTT
 TISMLTGLFGASAGTIFVYGKDIKTDLHTVRKNMGVCMQHDVLSYLT TKEHLLLYGSIKVPHWTK
 30 KQLHEEVKRTLKDTGLYSHRHKRVGTLSGGMKRKLSISIALIGGSRVVILDEPSTGVDPCSRRSIW
 DVISKNKTARTIILSTHHLDEAEVLSDRIFLEQGGRLCCGSPFYLKEAFGDGYHLTLTKKSPNL
 NANAVCDTMAVTAMIQSHLPEAYLKEDIGGELVYVLPFPSTKVS GAYLSLLRALDNGMGDLNIGCY
 GISDTTVEEVFLNLTKESQKNSAMSLEHLTQKKIGNSNANGISTPDDL SVSSSNFTDRDDKILTRG
 ERLDGFGLLLKKIMAILIKRFHXXRRNWKGLIAQVILPIVFVTTAMGLGTLRNSSNSYPEIQISPS
 35 LYGTSEQTAFYANYHPSTEALVSAMWDFPGIDNMCLNTSDLOCLNKDSLEKWNTSGEPITNFGVCS
 CSENVQECPKFNYSPPHRTYSSQVIYNLTGQRVENYLISTANEFVQKRYGGWSFGLPLTKDLRFD
 ITGVPANRTLAKVWYDPEGYHSLPAYLNSLNNFLRVNMSKYDAARHGIIMYSHPYPGVQDQEQAT
 ISSLIDILVALSILMGYSVTTASFVTVVREHQTAKQLQHISGIGVTCYVWTFNIYDMVFLVPV
 AFSIGIIAIFKLPAFYSENNLGAVSLLLLLFGHATFSWMYLLAGLFHETGMAFITVVCVNLFFGIN
 40 SIVLSVVYFLSKEKPNDPTLELISETLKRIFLIFPQFCFGYGLIELSQQQSVLDFLKAYGVEYPN
 ETFEMNKL GAMFVALVSQGT MFFSLRLLINESLIKLRLLFRKFNSSHVRETIDEDEDVRAERLRV
 ESGAAEFDLVQLYCLTKTYQLIHKKI IAVNNISIGIPAGECFGLLG VNGAGKTTIFKMLTGDII PS
 SGNILIRNKTGSLGHVDSHSSLVGYCPQEDALDDLVTVEEHLYFYARVHGIPEKD IKETVHKLLRR
 LHLMPFKDRATSMCSYGTKRKLSTALALIGKPSILLLDEPSSGMDPKSKRHLWKIISEEVQNKCSV
 45 ILTSHSMEECEALCTRLAIMVNGKFQCIGSLQHIKS RFGRGFTVKVHLKNNKVTMETLTKFMQLHF
 PKTYLKDQHL SMLEYHVPV TAGGVANIFDLLETNKTALNITNFLVSQTTLEEVFINFAKDQKSYET
 ADTSSQGSTISVDSQDDQMES*

Figure 7:

SEQ ID NO: 6

5 MASLFHQQLVWKNWLGVKRQPLWTLVLILWPVIFIILAITRTKFPPTAKPTCYLAPRNLP
 TGFFPFLQTLCDTDSKCKDTPYGPQDLLRRKGIDDALFKDSEILRKSSNLDKSSLSFQSTQV
 PERRHASLATVFPSPSSDLEIPGTYTFNGSQVLARILGLEKLLKQNSTSEDIRRELCDSYSGYI
 VDDAFSWTFLGRNVFNKFCLSNMTLLESSLQELNKQFSQSSDPNNQKIVFQBIVRMLSFFSQV
 10 QEQKAVWQLLSSFPNVFQNDTSLSNLFDVLRKANSVLLVVQKVYPRFATNEGFRITLQKSVKHL
 YTLDSPAQGDSDNITHVWNEDDGQTLSPSSLAQQLILENFEDALLNISANSPIPYLACVRNV
 TDSLARGSPENLRLLQSTIRFKKSFLRNGSYEDYFPPVPEVLKSKLSQLRNLTELLCESETFSL
 IEKSCQLSDMSFGSLCEESEFDLQLEAAELGTEIAASLLYHDNVIKSKVRDLTGDPSKINLN
 MDQFLEQALQMNYLENITQLIPIIEAMLHVNNASADASEKPGQLLEMFKNVEELKEDLRRTTGMS
 15 NRTIDKLLAIPIDNRAEIIISQVFWLHSCDTNITTPKLEDAMKEFCNLSLSESRQSYLIGLTL
 LHYLNIYNFTDKVFFPRKDQKPVEKMMELFIRLKEILNQMASGTHPLLDKMRSLKQMHLP
 LTQAMYRSNRMNTPOGSFSTISQALCSQGITTETLMTLPSQRPKGNHTKDFLTQKLTKEQIA
 SKYGIPINTTPFCFSLYKDIINMPAGPVIWAFLKPMLLGRILHAPYNPVTKAIMEKSNVTLRQ
 AELREKSQEWMDKSPFLMNSFHLLNQAIPLQNTLRNPFVQVQVSVGLDAVELLKQIDELDI
 20 LRLKLENNIDIIDQLNTLSSLTVNISSCVLYDRIQAAKTIDEMEREAKRLYKSNELFGSVIFKL
 PSNRSHRGYDSGNVFLPPVIKYTIRMSLKTAQTTRSLRTKIWAPGPHNSPSHNQIYGRAFIYL
 QDSIERAIIELQGRNSQEIADVQVQAIYPYCFMKDNFLTSVSYSLPIVLMVAVVVFIAAFVKKL
 VYEKDLRLHEYMKMMGVNSCSHFFAWLIESVGFLLVITIVILIIILKFGNLTNGFILFLYFS
 DYSFSVIAMSYLISVFFNNTNIAALIGSLIYIIAFFFPIVLVTVENELSYVLKVFMSLLSPTAF
 25 SYASQYIARYEEQGIGLQWENMYTSPVQDDTTSFGWLCCILADSFYFLIAWYVRNVFPGTYG
 MAAPWYFFIPLPSYWKERFGCAEVKPEKSNGLMFTNIMQNTNPSASPEYMFSSNIEPEPKDLTV
 GVALHGVTKIYGSKVAVDNLNLNFYEGHITSLLGPNAGAKTTTISMLTGLFGASAGTIFVYKGD
 IKTDLHTVRKNMGVCMQHDVLFSTLTKHELLLYGSIKVPHWTKKQLHEEVKRTLKDTGLYSHR
 HKRVGTLGGMKRKLISIALIGGSRVILDEPSTGVDPCSRRIWDVISKNTARTIILSTHH
 30 LDEAEVLSDRIFLEQGGRLCCGSPFYLKEAFGDGYHLTLTKKVFLNLTKESQKNSAMSLEHL
 TQKKIGNSNANGISTPDDLVSSSNFTDRDDKILTRGERLDGFGLLKKIMAILIKRFHHARRN
 WKGLIAQVILPIVFTTAMGLTLRNSSNSYPEIQISPSLYGTSXQTAFYANYHPSTEALVSAM
 WDFPGIDNMCLNTSDQLCLNKDSLEKWNTSGEPITNFGVCSCSENVQECPKFNYSPPHRTYSS
 QVIYNLTGQRVENYLISTANEFVQKRYGGWSFGLPLTKDLRFDTGVPANRTLAKVWYDPEGYH
 35 SLPAYLNSLNNFLLRVNMSKYDAARHGIIMYSHPPYGVQDQEQATISSLIDILVALSILMGYSV
 TTASFVTVVREHQTKAKQLQHISGIGVTCYVWTFNIYDMVFYLVVAFSIGIIAIFKLPAFYS
 ENNLGAVSLLLLLFGHATFSWMYLLAGLFHETGMAFITVVCVNLFFGINSIVLSVVFYLSKEK
 PNDPTLELISETLKRIFLIPQFCFGYGLIELSQQSVLDLFLKAYGVEYPNETFEMNKLGMFV
 ALVSQGTMMFFSLRLLINESLIKKLRLFFRFKFNSSHVRETIDEDDVRAERLRVESGAAEFDLVQ
 40 LYCLTKTYQLIHKIIAVNNISIGIPAGECFGLLVNGAGKTTIFKMLTGDIIIPSSGNILIRNK
 TGS LGHVDSHSSLVGYCPQEDALDDLVTVEEHLYFYARVHGIPEKDIKETVHKLLRRLHLMFPK
 DRATSMCSYGTKRKLSTALALIGKPSILLDEPSSGMDPKSKRHLWKIISEEVQNKCSVILTSH
 SMEECEALCTRLAIMVNGKFQCIGSLQHIKSFRGFTVKVHLKNNKVTMETLTKFMQLHFPKT
 YLKDQHLMSLEYHVPVTAGGVANIFDLLETNKTALNITNFLVSQTTLEEVFINFAKDQKSYETA
 DTSSQGSTISVDSQDDQMES*